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ANITIPARKINOSONISM AGENT

KYOWA HAKKO KOGYO CO LTD

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Abstract: PURPOSE: To obtain an antiparkinsonism agent having strong and highly specific adenosine A₂ antagonistic action by using a xanthine derivative as an active component.

CONSTITUTION: The compound of formula I [R^1 and R^2 are methyl or ethyl; R^3 is H, lower alkyl, etc.; R^4 is cycloalkyl, $(CH_2)_n-R^5$ (R^5 is aryl or heterocyclic group; (n) is 0-4) or $C(Y^1)=CY^2Z$ (Y^1 and Y^2 are H, halogen or lower alkyl; Z is aryl); X^1 and X^2 are O or S], e.g. (E)-8-(3,4-dimethoxystyryl)-1,3-diethylxanthine. The compound of formula I can be produced by reacting a uracil derivative of formula II with a carboxylic acid of the formula R^4COOH or its reactive derivative and reacting the obtained compound of formula III in the presence of a base (e.g. NaOH) in a solvent (e.g. ioxane) at 0-180°C.

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